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NPIC/R-178/65

June 1965

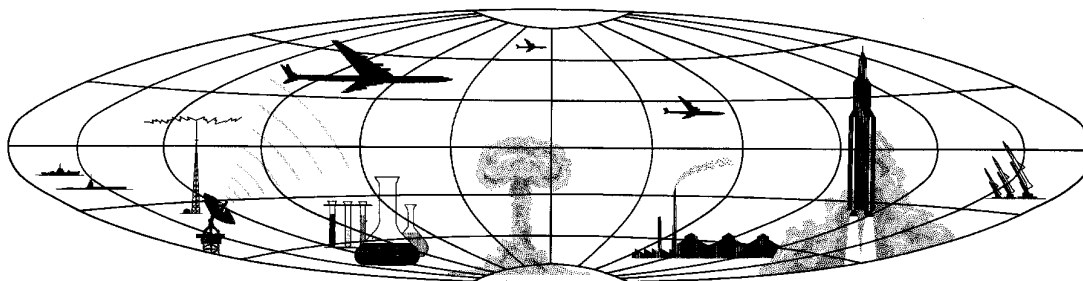
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PHOTOGRAPHIC INTERPRETATION REPORT

## ELECTRONIC INTERCEPT FACILITY TUNG-CHING SHAN, CHINA

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

Declass Review  
by NIMA/DOD



NSA review(s) completed.

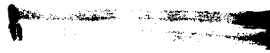
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## ELECTRONIC INTERCEPT FACILITY TUNG-CHING SHAN, CHINA

### INTRODUCTION

This report presents an analysis of good-quality, low-altitude photography of an electronic intercept facility at Tung-ching Shan on the China coast (Figure 1). This significant facility (25-25-00N 119-37-40E) is 4.7 nautical miles (nm) southeast of Kao-shan Shih, 13 nm southeast of Lung-tien Airfield, approximately 75 nm west-northwest of the northwestern coast of Taiwan, and is situated on the peak of a 1,370-foot hill, the highest in its vicinity (Figure 2). Its location, in addition to the numbers, orientations, and types of antennas observed here (Figure 3), indicate that the main function of the facility is the intercept of electronic signals originating at or near northern Taiwan.

### ANTENNAS AND IMMEDIATE SUPPORT

Fifty-seven antennas and possible antennas (both operational and nonoperational) were observed at the facility, including very high-frequency (VHF) rhombic, mattress, yagi, and DISCONE antennas; solid and mesh parabolic dish reflectors; a dipole, microwave dishes, and individual stick masts. All antennas are numbered and listed by type in the tables on Figure 3. Measurable dimensions and orientations are given whenever possible, and the degree of accuracy is specified in all cases.

Most of the operational antennas--38 to be exact--are of a directional type and, of these, 31 have a measurable

orientation. Of that 31, there are 28 with azimuths between 90 and 165 degrees, a sector which, when extended, affords very good coverage of northern Taiwan. The presence of 10 DISCONE antennas indicates a possible air-to-ground intercept capability. In response to a specific request, a search was undertaken for RVG-951 antennas,\* with negative results.

Immediate support at the facility includes 9 buildings, 2 probable water tanks, several trenches, 4 antenna-shielding walls,

\*Based on a description contained in referenced document. 1/

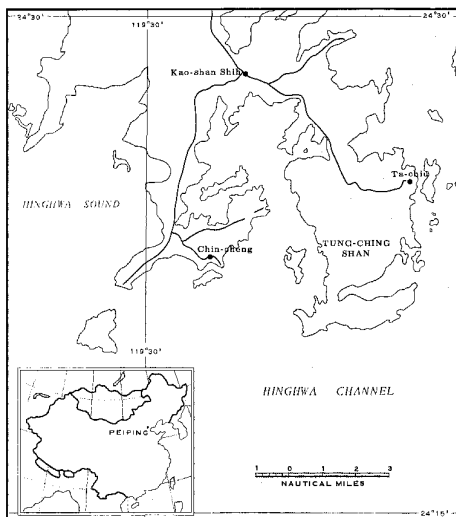


FIGURE 1. LOCATION OF FACILITY.

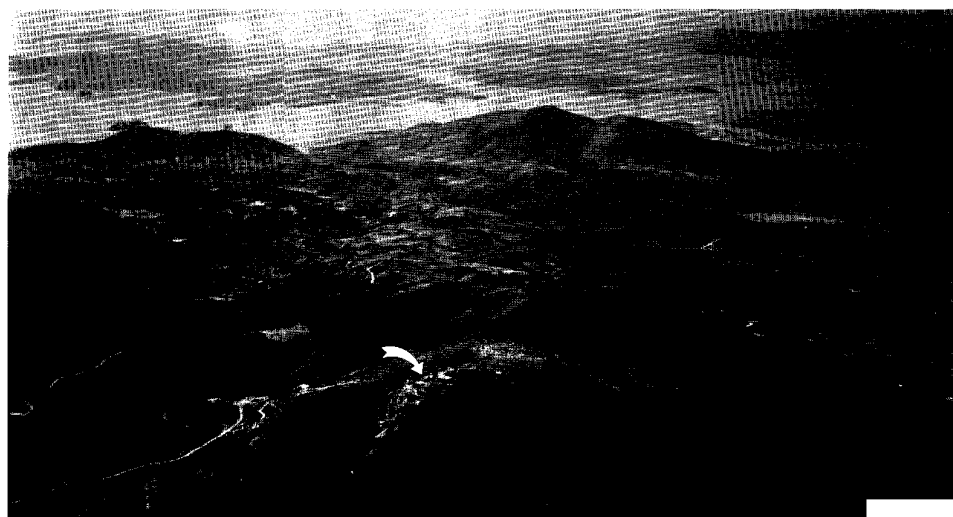


FIGURE 2. LOOKING WESTWARD AT THE ELECTRONIC INTERCEPT FACILITY (FOREGROUND), TUNG-CHING SHAN. The facility occupies the peak of a 1,370-foot hill, the highest in the vicinity, and faces generally to the east and south.

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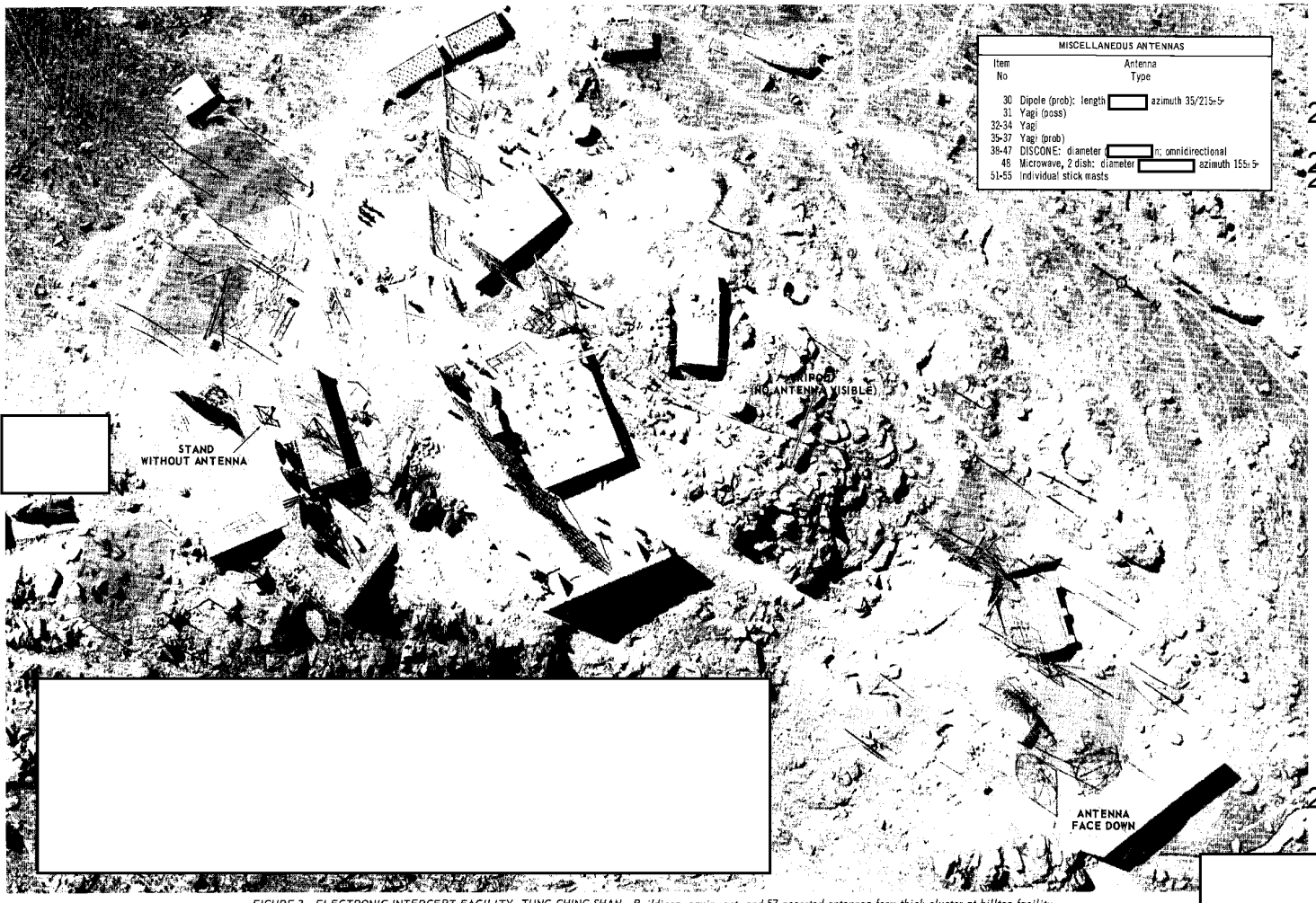


FIGURE 3. ELECTRONIC INTERCEPT FACILITY, TUNG-CHING SHAN. Buildings, equipment, and 57 assorted antennas form thick cluster at hilltop facility.

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## OPERATIONAL STATUS

The general appearance of the facility, the large number of antennas already present, the others in various stages of construction or alteration, and the presence of a number of workmen or soldiers about the area all show the facility to be very active and probably being enlarged.

A study of photography from [ ] dating from [ ] revealed that some of the present antennas were installed between [ ] [ ] However, obliquity and/or poor-quality photography precluded the establishment of a detailed construction chronology.

This report, and the table included in Figure 3, are based on the best recent photography, that of [ ] The latest photography available, that of [ ] (Figure 2), was oblique and of a much smaller scale; the only significant change noted was the apparent replacement of Antennas 9 and 12 (a solid and a mesh parabolic dish) by mattress antennas.

## REFERENCES

### MAPS OR CHARTS

- DIA. US Air Target Chart, Series 200, Sheet 0499-16HL, 2d ed, Feb 64, scale 1:200,000 (S)  
AMS. Series L500, Sheet NG 50-12, 1-AMS ed, 1954, scale 1:250,000 (U)

### DOCUMENT

1. USAF. Air Intelligence Information Report IR-129-58, *ATILO Team 1, 522D MI Bn, 1175845*, 4 Apr 58 (CONFIDENTIAL/ [ ])

### REQUIREMENT

### NPIC PROJECT

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